

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 11:49:05 ON 01 MAR 2008

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.84

0.84

FILE 'CAPLUS' ENTERED AT 11:51:30 ON 01 MAR 2008

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FILE COVERS 1907 - 1 Mar 2008 VOL 148 ISS 10

FILE LAST UPDATED: 29 Feb 2008 (20080229/ED)

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<http://www.cas.org/infopolicy.html>

=> e us20040265627/pn

E1	1	US2004265625/PN
E2	1	US2004265626/PN
E3	1 -->	US2004265627/PN
E4	1	US2004265628/PN
E5	1	US2004265629/PN
E6	1	US2004265630/PN
E7	1	US2004265631/PN
E8	1	US2004265632/PN
E9	1	US2004265633/PN
E10	1	US2004265635/PN
E11	1	US2004265636/PN
E12	1	US2004265637/PN

=> s e3

L1 1 US2004265627/PN

=> d all

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:930972 CAPLUS

DN 141:403236

ED Entered STN: 06 Nov 2004

TI Organic electroluminescent devices, aminostyrylnaphthalene compounds and synthesis intermediates thereof, and production processes of the same

IN Ichimura, Mari; Ishibashi, Tadashi; Tamura, Shinichiro

PA Sony Corporation, Japan

SO Eur. Pat. Appl., 76 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C09K011-06

ICS H05B033-14; H01L051-30

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

Section cross-reference(s): 25, 76

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1473349	A2	20041103	EP 2004-7087	20040324
	EP 1473349	A3	20070718		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
	JP 2004307472	A	20041104	JP 2004-33056	20040210
	JP 4001118	B2	20071031		
	CN 1533220	A	20040929	CN 2004-10032650	20040324
	KR 2004084775	A	20041006	KR 2004-20020	20040324
	US 2004265627	A1	20041230	US 2004-807984	20040324 <--
	US 2008051607	A1	20080228	US 2007-765560	20070620
	FRAI	JP 2003-79768	A	20030324	
JP 2004-33056		A	20040210		
US 2004-807984		A3	20040324		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1473349	ICM	C09K011-06
	ICS	H05B033-14; H01L051-30
	IPCI	H05B0033-14 [I,A]; C09K0011-06 [I,A]; H01L0051-00 [I,A]
	IPCR	H01L0051-50 [I,C*]; H01L0051-50 [I,A]; H05B0033-14 [I,C]; H05B0033-14 [I,A]; C07C0253-00 [I,C*]; C07C0253-30 [I,A]; C07C0255-00 [I,C*]; C07C0255-52 [I,A]; C07C0255-58 [I,A]; C07C0255-59 [I,A]; C07F0009-00 [I,C*]; C07F0009-40 [I,A]; C07F0009-54 [I,A]; C09B0057-00 [I,C*]; C09B0057-00 [I,A]; C09K0011-06 [I,C]; C09K0011-06 [I,A]; H01L0051-00 [I,C]; H01L0051-00 [I,A]
JP 2004307472	ECLA	M09K; M09K; T01L; T01L
	IPCI	C07C0255-58 [I,A]; C07C0253-30 [I,A]; C07C0253-00 [I,C*]; C07C0255-52 [I,A]; C07C0255-00 [I,C*]; C07F0009-40 [I,A]; C07F0009-54 [I,A]; C07F0009-00 [I,C*]; C09B0057-00 [I,A]; C09K0011-06 [I,A]; H01L0051-50 [I,A]
	IPCR	H01L0051-50 [I,C*]; H01L0051-50 [I,A]; C07C0253-00 [I,C*]; C07C0253-30 [I,A]; C07C0255-00 [I,C*]; C07C0255-52 [I,A]; C07C0255-58 [I,A]; C07C0255-59 [I,A]; C07F0009-00 [I,C*]; C07F0009-40 [I,A]; C07F0009-54 [I,A]; C09B0057-00 [I,C*]; C09B0057-00 [I,A]; C09K0011-06 [I,C*]; C09K0011-06 [I,A]; H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H05B0033-14 [I,A]
	ECLA	M09K; M09K; T01L; T01L
	FTERM	3K007/AB02; 3K007/AB03; 3K007/AB11; 3K007/DB03; 3K007/FA01; 4H006/AA01; 4H006/AA02; 4H006/AA03; 4H006/AB84; 4H006/AB91; 4H006/AC22; 4H006/AC30; 4H006/BA92; 4H006/BB14; 4H006/BD70; 4H050/AA01; 4H050/AA02; 4H050/AA03; 4H050/AB84; 4H050/WA24; 4H050/WA26; 4H056/DA02; 4H056/DB10; 4H056/DB15; 4H056/DC01; 4H056/FA10

CN 1533220 IPCR H01L0051-50 [I,C\*]; H01L0051-50 [I,A]; C07C0253-00 [I,C\*]; C07C0253-30 [I,A]; C07C0255-00 [I,C\*]; C07C0255-52 [I,A]; C07C0255-58 [I,A]; C07C0255-59 [I,A]; C07F0009-00 [I,C\*]; C07F0009-40 [I,A]; C07F0009-54 [I,A]; C09B0057-00 [I,C\*]; C09B0057-00 [I,A]; C09K0011-06 [I,C\*]; C09K0011-06 [I,A]; H01L0051-00 [I,C\*]; H01L0051-00 [I,A]; H05B0033-14 [I,C\*]; H05B0033-14 [I,A]

KR 2004084775 IPCI C09K0011-06 [I,C,M,7]

US 2004265627 ECLA M09K; M09K; T01L; T01L

US 2004265627 IPCR H01L0051-50 [I,C\*]; H01L0051-50 [I,A]; C07C0253-00 [I,C\*]; C07C0253-30 [I,A]; C07C0255-00 [I,C\*]; C07C0255-52 [I,A]; C07C0255-58 [I,A]; C07C0255-59 [I,A]; C07F0009-00 [I,C\*]; C07F0009-40 [I,A]; C07F0009-54 [I,A]; C09B0057-00 [I,C\*]; C09B0057-00 [I,A]; C09K0011-06 [I,C\*]; C09K0011-06 [I,A]; H01L0051-00 [I,C\*]; H01L0051-00 [I,A]; H05B0033-14 [I,C\*]; H05B0033-14 [I,A]

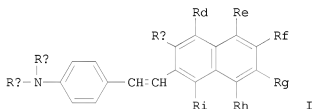
NCL 428/690.000; 313/504.000; 313/506.000; 428/917.000; 558/070.000; 564/429.000; 564/431.000; 564/433.000

US 2008051607 IPCI C07C0209-60 [I,A]; C07C0209-00 [I,C\*]

NCL 564/393.000

OS MARPAT 141:403236

GI



AB Aminostyrylnaphthalene compds. are described by the general formula I (Ra and Rb = independently selected (un)substituted aryl groups; Rc, Rd, Re, Rg, Rh, and Ri are independently selected from H, CN, a nitro group, a trifluoromethyl group or a halogen atom; and Rf = (un)substituted (un)saturated alkyl, (un)substituted alicyclic hydrocarbon, (un)substituted aryl group, (un)substituted alkoxyl, a(un)substituted alicyclic hydrocarbyloxy, or (un)substituted aromatic hydrocarbyloxy). Organic electroluminescent devices with layers incorporating the compds. are also described. Methods for the production of the aminostyrylnaphthalene derivs. are described which entail condensation of a 4-aminobenzaldehyde deriv. and  $\geq 1$  phosphonate ester or phosphonium. Phosphonate esters or phosphoniums useful for the reactions are also described, as are methods for their production which entail reacting a halogenated aryl compound with a trialkyl phosphite. Further, halogenated aryl compds. appropriate as precursors for the synthesis of the phosphonate esters or phosphoniums are described along with a method for their synthesis by reacting a naphthalene derivative with an N-halogenated succinimide.

ST org electroluminescent device aminostyrylnaphthalene deriv; aminostyrylnaphthalene deriv intermediate prodn; condensation aminobenzaldehyde deriv phosphonate ester phosphonium aminostyrylnaphthalene deriv prodn

IT Phosphonium compounds

RL: RCT (Reactant); RACT (Reactant or reagent)  
(intermediates for aminostyrylnaphthalene derivs.)

IT Wittig reaction  
(organic electroluminescent devices and aminostyrylnaphthalene compds. and synthesis intermediates for them and their production)

IT Electroluminescent devices  
(organic; organic electroluminescent devices and aminostyrylnaphthalene compds. and synthesis intermediates for them and their production)

IT 91-57-6DP, 2-Methylnaphthalene, halogenated derivs.  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(in production of synthesis intermediates for aminostyrylnaphthalene derivs.)

IT 101-02-0, Triphenylphosphite 123-56-8D, Succinimide, halogenated derivs.  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(in production of synthesis intermediates for aminostyrylnaphthalene derivs.)

IT 786704-40-3P  
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)  
(organic electroluminescent devices and aminostyrylnaphthalene compds. and synthesis intermediates for them and their production)

IT 87755-82-6 786704-39-0  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(organic electroluminescent devices and aminostyrylnaphthalene compds. and synthesis intermediates for them and their production)

=> delete select y  
ALL E# DEFINITIONS DELETED

=> sel ll rn 1-  
E1 THROUGH E6 ASSIGNED

=> d sel

E1	1	101-02-0/BI
E2	1	123-56-8/BI
E3	1	786704-39-0/BI
E4	1	786704-40-3/BI
E5	1	87755-82-6/BI
E6	1	91-57-6/BI

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.96	6.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

FILE 'REGISTRY' ENTERED AT 11:52:22 ON 01 MAR 2008  
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DICTIONARY FILE UPDATES: 29 FEB 2008 HIGHEST RN 1005981-96-3

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<http://www.cas.org/support/stngen/stdoc/properties.html>

=> s e1-e6

1 101-02-0/BI  
(101-02-0/RN)  
1 123-56-8/BI  
(123-56-8/RN)  
1 786704-39-0/BI  
(786704-39-0/RN)  
1 786704-40-3/BI  
(786704-40-3/RN)  
1 87755-82-6/BI  
(87755-82-6/RN)  
1 91-57-6/BI  
(91-57-6/RN)

L2 6 (101-02-0/BI OR 123-56-8/BI OR 786704-39-0/BI OR 786704-40-3/BI  
OR 87755-82-6/BI OR 91-57-6/BI)

=> d ide 1-

YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

L2 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN

RN 786704-40-3 REGISTRY

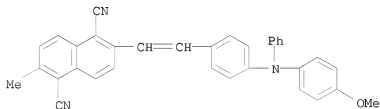
ED Entered STN: 23 Nov 2004

CN 1,5-Naphthalenedicarbonitrile, 2-[2-[4-[(4-methoxyphenyl)phenylamino]phenyl]ethenyl]-6-methyl- (CA INDEX NAME)

MF C34 H25 N3 O

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

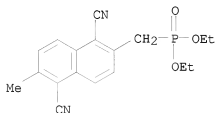
2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN

RN 786704-39-0 REGISTRY

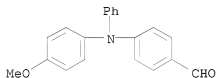
ED Entered STN: 23 Nov 2004  
 CN Phosphonic acid, [(1,5-dicyano-6-methyl-2-naphthalenyl)methyl]-, diethyl  
 ester (9CI) (CA INDEX NAME)  
 MF C18 H19 N2 O3 P  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 87755-82-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Benzaldehyde, 4-[(4-methoxyphenyl)phenylamino]- (CA INDEX NAME)  
 OTHER NAMES:  
 CN 4-[(4-Methoxyphenyl)phenylamino]benzaldehyde  
 CN 4-[N-(4-Methoxyphenyl)-N-phenylamino]benzaldehyde  
 MF C20 H17 N O2  
 LC STN Files: CA, CAPLUS, CASREACT, USPAT2, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

32 REFERENCES IN FILE CA (1907 TO DATE)  
 32 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 123-56-8 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 2,5-Pyrrolidinedione (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Succinimide (8CI)  
 OTHER NAMES:  
 CN 2,5-Diketopyrrolidine  
 CN 2,5-Dioxopyrrolidine  
 CN Butanimide  
 CN L 113B  
 CN Lubrizol 6406  
 CN NSC 11204

CN NSC 13114  
 CN NSC 49152  
 CN Succinic acid imide  
 CN Succinic imide  
 DR 127004-69-7, 89963-74-6  
 MF C4 H5 N O2  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM\*, DRUGU, EMBASE, GMELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4066 REFERENCES IN FILE CA (1907 TO DATE)  
 1761 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 4072 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 101-02-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Phosphorous acid, triphenyl ester (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Phenyl phosphite ((C6H5O)3P) (6CI, 7CI)  
 OTHER NAMES:  
 CN ADK Stab TPP  
 CN Advance TPP  
 CN Doverphos 10  
 CN Irgafos TPP  
 CN Irgastab CH 55  
 CN JP 360  
 CN Mark TPP  
 CN Mellite 310  
 CN NSC 43789  
 CN NSC 62219  
 CN Phosclere T 36  
 CN Plastistab 2334  
 CN Sumilizer TPP-R  
 CN Sumilizer TTP-R  
 CN TP 1  
 CN TP 1 (plasticizer)  
 CN TP-I  
 CN TPP  
 CN TPP (plasticizer)  
 CN TPP-R  
 CN Triphenoxyphosphine

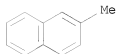
CN Triphenyl phosphite  
 CN Tris(phenoxy)phosphine  
 CN Weston TPP  
 MF C18 H15 O3 P  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM\*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, RTECS\*, SCISEARCH, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4408 REFERENCES IN FILE CA (1907 TO DATE)  
 121 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 4409 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 27 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 91-57-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Naphthalene, 2-methyl- (CA INDEX NAME)  
 OTHER NAMES:  
 CN  $\beta$ -Methylnaphthalene  
 CN 2-Methylnaphthalene  
 CN NSC 3575  
 MF C11 H10  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM\*, EMBASE, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5500 REFERENCES IN FILE CA (1907 TO DATE)  
 47 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 5511 REFERENCES IN FILE CAPLUS (1907 TO DATE)



6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	12.46	19.26
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

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=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L3 1 786704-40-3/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION

FULL ESTIMATED COST	0.55	19.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

FILE 'CAPLUS' ENTERED AT 11:53:16 ON 01 MAR 2008  
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FILE COVERS 1907 - 1 Mar 2008 VOL 148 ISS 10  
 FILE LAST UPDATED: 29 Feb 2008 (20080229/ED)

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=> S L3

L4 2 L3

=> DIS L4 1- IBIB IABS

YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):Y  
 THE ESTIMATED COST FOR THIS REQUEST IS 5.82 U.S. DOLLARS  
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER:	2005:1202881 CAPLUS
DOCUMENT NUMBER:	144:282870
TITLE:	High performance OLED panels for Sony CLIE PDA: development of red emitter and super top emission structure
AUTHOR(S):	Ichimura, Mari; Noh, Seong-Hee; Ishibashi, Tadashi; Ueda, Naoyuki; Tamura, Shin-ichiro
CORPORATE SOURCE:	Display Device Development Group, Micro Systems Network Company, Sony Corp., 4-14-1 Asahi-machi, Atsugi-shi, Kanagawa, 223-0014, Japan
SOURCE:	Proceedings of SPIE-The International Society for Optical Engineering (2005), 5937(Organic Light-Emitting Materials and Devices IX), 593703/1-593703/12
	CODEN: PSISDG; ISSN: 0277-786X
PUBLISHER:	SPIE-The International Society for Optical Engineering
DOCUMENT TYPE:	Journal
LANGUAGE:	English
ABSTRACT:	

Sony has commercialized a full-color OLED comprising a new red emissive material, which provides high performance and long operation lifetime. We have

carried out systematic research and developed a promising material that has excellent properties for practical applications. This compound shows an absorption peak and a luminescence peak at 483 nm and 644 nm, resp. The molar absorption coefficient is large ( $\epsilon = 38,100 \text{ M}^{-1}\text{cm}^{-1}$  in 1,4-dioxane) and the fluorescence quantum yield is also very high (QYf = 0.82 in 1,4-dioxane). The glass transition temperature is as high as 135 °C. This compound offers thermally stable amorphous state in vacuum coating and is emissive even in single component films. We incorporated the new styryl compound in Sony's proprietary Super Top Emission technol. and achieved outstanding brightness and wide color gamut comparable to the NTSC standard. The Super Top Emission consists of a top emitting device structure and color filters, which realize sufficient brightness and pure color at the same time without impairing the wide viewing angles. We obtained suitable device performance for practical use by tuning the layered structures. The emitting color is adjusted by optimizing the doping concentration of the styryl compound in the emitting layer and each thickness of the organic layers. We achieved the chromaticity (0.65, 0.35) in the CIE 1931 standard colorimetric system. The device operation lifetime exceeds 64,000 h at the initial luminance 500 cd/m<sup>2</sup>. We would also like to discuss the advantages over the conventional red emissive materials.

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:930972 CAPLUS

DOCUMENT NUMBER: 141:403236

TITLE: Organic electroluminescent devices, aminostyrylnaphthalene compounds and synthesis intermediates thereof, and production processes of the same

INVENTOR(S): Ichimura, Mari; Ishibashi, Tadashi; Tamura, Shinichiro

PATENT ASSIGNEE(S): Sony Corporation, Japan

SOURCE: Eur. Pat. Appl., 76 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

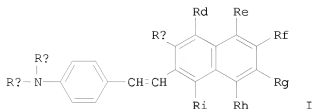
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1473349	A2	20041103	EP 2004-7087	20040324
EP 1473349	A3	20070718		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
JP 2004307472	A	20041104	JP 2004-33056	20040210
JP 4001118	B2	20071031		
CN 1533220	A	20040929	CN 2004-10032650	20040324
KR 2004084775	A	20041006	KR 2004-20020	20040324
US 2004265627	A1	20041230	US 2004-807984	20040324
US 2008051607	A1	20080228	US 2007-765560	20070620
PRIORITY APPLN. INFO.:			JP 2003-79768	A 20030324
			JP 2004-33056	A 20040210
			US 2004-807984	A3 20040324

OTHER SOURCE(S): MARPAT 141:403236

GRAPHIC IMAGE:



# ABSTRACT:

Aminostyrylnaphthalene compds. are described by the general formula I (Ra and Rb = independently selected (un)substituted aryl groups; Rc, Rd, Re, Rg, Rh, and Ri are independently selected from H, CN, a nitro group, a trifluoromethyl group or a halogen atom; and Rf = (un)substituted (un)saturated alkyl, (un)substituted alicyclic hydrocarbon, (un)substituted aryl group, (un)substituted alkoxy, a(un)substituted alicyclic hydrocarbyloxy, or (un)substituted aromatic hydrocarbyloxy). Organic electroluminescent devices with layers incorporating the compds. are also described. Methods for the production of the aminostyrylnaphthalene derivs. are described which entail condensation of a 4-aminobenzaldehyde deriv.and ≥1 phosphonate ester or phosphonium. Phosphonate esters or phosphoniums useful for the reactions are also described, as are methods for their production which entail reacting a halogenated aryl compound with a trialkyl phosphite. Further, halogenated aryl compds. appropriate as precursors for the synthesis of the phosphonate esters or phosphoniums are described along with a method for their synthesis by reacting a naphthalene derivative with an N-halogenated succinimide.

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